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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/753,521

01/08/2004

Gerald Keith Bartley

ROC920030292US1

9844

7590

01/27/2005

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EXAMINER

DINH, PHUONG K

ART UNIT

PAPER NUMBER

2839

DATE MAILED: 01/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

10/753,521

**Applicant(s)**

BARTLEY ET AL.

**Examiner**

Phuong KT Dinh

**Art Unit**

2839

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 08 January 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                         |                                                                             |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____                                                |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____                                                             | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Drawings*

1. The drawings are objected to because:
2. Figure 2 need add number 16 and a leadline. Figure 1 part 14 should be sectioned as insulation.
3. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the claim 3, traces on

Art Unit: 2839

same surface of the strip and claim 5, as a coaxial cable must be shown on the feature(s) canceled from the claim(s). No new matter should be entered. A coaxial cable as the term is understood, is shown at 42 but not with respect to connector body 14.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claim 3 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

7. Claim 3 lacks enablement, since not shown or described in adequate detail and how these produce-desired impedance is unclear.

***Claim Rejections - 35 USC § 103***

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 1-8 and 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Booty (U. S. Patent 4,875,871) in view of Gomez (U. S. Patent 6,126,453).

10. Regarding claims 1-3, 6-7, 10-11 and 13-15 Booty figure 12 discloses an electrical connector for connecting an electrical apparatus to a high frequency electrical conductor comprising: a connector body 230e having a passageways therethrough extending from a first end to a second end thereof, electrically conductive signal carrying elements 236a, 236b disposed in the passageways and extending between the first end of the connector body to the second end of the second end of the connector body to carry a high frequency signal from the first connector end to the second

Art Unit: 2839

connector end. Booty discloses the claimed invention except for the signal carrying element comprising a strip of flexible dielectric material having a first trace and a second trace formed upon a surface of the strip of flexible dielectric material. Gomez, figure 1, discloses a signal strip at 28 dielectric material having a first trace 29 and a second trace 24, 30, 32 formed upon a surface of the strip of flexible dielectric material. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Booty to provide the signal strip for the cable with signal on one side and grounds on same or on the other side as taught by Gomez so as to provide for low cost

11. Regarding claim 4, Booty and Gomez disclose the claimed invention except for the thickness of the dielectric material separating the first trace and the second trace is selected to produce a predetermined impedance to much the impedance of a high frequency electrical conductor connected to the signal carrying element. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify to select materials to produce desired effects.

12. Regarding claim 5, Booty discloses the claimed invention except for the high frequency electrical conductor is a coaxial cable. Gomez discloses coaxial cables at 26 and 46. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Booty to provide the coaxial cable as taught by Gomez because this is well known for low crosstalk. Since applicant uses term coaxial cable for a strip cable, the term are also readable on Gomez cable 26.

13. Regarding claim 8, Booty and Gomez disclose the claimed invention except for the signal trace is true phase of a differential signal and the reference trace is a

Art Unit: 2839

complementary phase of the differential signal. This feature only relates to matter of circuit design. Claims 12, 13, 15 are similarly treated

14. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Booty (U. S. Patent 4,875,871) in view of Gomez (U. S. Patent 6,126,453) and further in view of Demus (U. S. Patent 5,244,410).

15. Regarding claim 9, Booty and Gomez disclose the claimed invention except for the first trace and second trace are of equal width and aligned with one another. Demus, see figure 3, discloses the first trace and second trace are of equal width and aligned with one another. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Booty and Gomez to use for ground on one side, ground on other side both of same width as taught by Demus so as to design for impedance making. Note that Gomez conductors 24, 29 appear to be same thickness.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong KT Dinh whose telephone number is 571-272-2090. The examiner can normally be reached on 8 -5, 5 days a week.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TC Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2839

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to be 'Phuong Dinh', written in a cursive style.

Phuong Dinh  
January 06, 2005.